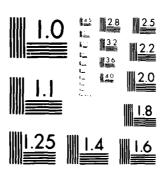
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TECHNICAL REPORT NO. 97

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COURSE SCHEDULING MODEL FOR THE NAVAL TRAINING COMMAND

Benjamin W. Lin Rutgers University

Charles R. Guitard Gary W. Hodak Training Analysis and Evaluation Group

February 1981

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Evaluation

FOREWORD

This task is a subproject of the Training Systems Design and Management Project (Z1175PN), supported in part by the Navy Personnel Research and Development Center, San Diego, California. Z1175PN includes a number of projects concerned with demonstrating and evaluating the technical, operational, and financial feasibility of applying advanced technological concepts in support of the management decision making process in the Naval Education and Training Command.

The support provided by the Fleet Anti-Submarine Warfare Training Center, Pacific, San Diego, is gratefully acknowledged. STSC C. R. Honeycutt and STGCS T. Saunders, in particular, provided outstanding cooperation and support. Also appreciated is the support and interest demonstrated by the Commander, Training Command, U.S. Pacific Fleet.

Appreciation is also extended to Dr. M. M. Zajkowski, Training Analysis and Evaluation Group, Orlando, for his editorial assistance and to Mr. W. H. Lindahl, Office of Assistant Secretary of the Navy (Manpower, Reserve Affairs and Logistics) for his assistance in the early stages of the study and most importantly for his continuing support and encouragement.

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COURSE SCHEDULING MODEL FOR THE NAVAL	FINAL REPORT.
TRAINING COMMAND,	Oct 79 - Aug 80 -
TRAINING COMMAND,	6. PERFORMING ORG. REPORT HUMBER
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,	S. CONTRACT OR GRANT NUMBER(+)
Benjamin W./Lin Gary W./Hodak Charles R./ Guitard	N61339-78-C-0029
PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT PROJECT TASK
College of Engineering, Rutgers University Piscataway, NJ 08854	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
1. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
Training Analysis and Evaluation Group	February 1981
Orlando, FL 32813	13. NUMBER OF PROES
	78
4. MONITORING AGENCY NAME & ADDRESS(II different from Controlling Office)	15. SECURITY CLASS. (of this report)
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20. ABSTRACT (continued)

course resource interactions and dependencies, and delays in resource acquisitions.

The purpose of this report is to present the Training Management System (TMS) course scheduling system and to provide a user's guide for the operation of the system. The course scheduling system provides an easy and efficient means of handling the large volume of data necessary to generate a feasible schedule for courses in a schoolhouse. The system is highly interactive and user oriented and is intended for use at the schoolhouse level. The program software is written in BASIC-2 and is designed to operate on a Wang 2200 system.



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SECTION I INTRODUCTION

The course scheduling process is labor intensive throughout the Naval Education and Training Command (NAVEDTRACOM). This process entails generation and maintenance of schedules to meet planned input requirements, which are subject to the suitability/availability of instructors, training equipment, and classroom and laboratory facilities. Course schedules must be established for the current year, constantly updated and revised as necessary, and projected for the out-year planning requirements of the 5-year defense plan. The process is further complicated by varying course lengths and start dates, class sizes, student/instructor ratios, contact hours, cross utilization of instructors and facilities, and delays in resource acquisitions. Consequently, the goal of the scheduling process is to arrive at a feasible rather than an optimum plan in terms of school resources utilization. Trade offs in schedules are made by exception when a crisis situation arises. The procedure for obtaining a feasible plan is not clearly established, resulting in course schedules which may be subject to the vagaries of individual style and competency.

Various aspects of the course scheduling process were addressed in two previous Training Analysis and Evaluation Group (TAEG) reports. TAEG Report No. 52 [1] described the essential components of the existing manual course scheduling process at the Fleet Anti-submarine Warfare Training Center, Pacific (FLEASWTRACENPAC). TAEG Report No. 72 [2] described a prototype of the automatic course scheduling program which automated the existing manual process with the objective of arriving at a feasible schedule easily and quickly.

^[1] W. H. Lindahl and B. W. Lin. "An Heuristic Approach For The Scheduling of Navy Training Courses." TAEG Report No. 52, December 1977. Training Analysis and Evaluation Group, Orlando, FL 32813. (AD A048183)

^[2] B. W. Lin and G. W. Hodak. "Automated Course Scheduling System For Naval Training." TAEG Report No. 72, June 1979. Training Analysis and Evaluation Group, Orlando, FL 32813. (AD A071576)

PURPOSE

The purpose of this report is to present the Training Management System (TMS) and to provide a guide to the operation of the system for NAVEDTRACOM personnel. TMS is an improved and expanded version of the prototype program.

OVERVIEW OF THE TRAINING MANAGEMENT SYSTEM (TMS)

The purpose of the TMS is to provide an easy and efficient means of handling the large volume of data necessary to generate a feasible schedule for courses in a schoolhouse. Figure 1 presents the options that comprise the TMS. There are six options which may be selected by the user via the MASTER TMS MENU. When an option is selected by the user the subsystem appears on the display as a list (menu) of additional options which allow the user to insert, update, delete, or analyze various data elements. A major part of each subsystem is the capability to maintain the various data files of the TMS. Additional options include the capability to conduct a feasibility analysis on various elements of the course file.

The system is designed to be highly interactive and user oriented; thus, numerous messages and instructions are provided throughout to aid the user. This system is designed to accommodate a variety of users in both the initial insertion of data as well as in the analysis of these data.

The TMS software is written in BASIC and designed to operate on a WANG 2200 T 32K system, WANG 2200VP 32K system, or WANG 2200 MVP 56K system. This version of the TMS will not support multiple users of the same data base. All models of currently available WANG disks are supported. The TMS uses a custom version of the Key File Access Method (KFAM-3) for indexing all of the subsystem data files.

ORGANIZATION OF THE REPORT

In addition to this introduction the report is divided into two other sections and an appendix. Section II briefly describes the major system options and suboptions. Section III is a detailed guide to the operation of the TMS. Examples of the various outputs available from TMS are contained in the appendix.

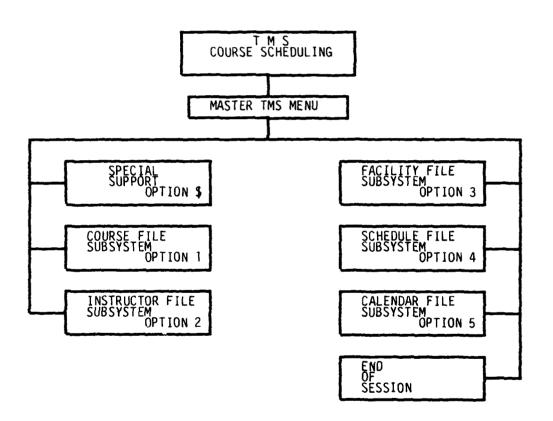


Figure 1. Overview of TMS Course Scheduling System

SECTION II SYSTEM OPTIONS

The Special Support Subsystem (Option \$) consists of programs used to initialize the system data files, initialize the system help files, update the system help files, and print the system help files. The help files may be used to provide messages to aid the user as to how to proceed at various places in the system. These help files may be customized by the user to place more or less emphasis on different parts of the system and to describe techniques which may be unique to the school.

The Course File Subsystem (Option 1) allows the user to add, edit, delete, analyze, and print data items related to each course in the system.

The user can analyze the feasibility of various scheduling options by performing various calculations of instructor and trainer requirements on the basis of changes to input parameters. Since the resource requirements may be different over the progression of the course, a breakdown of the course into modules is desirable, to the extent of achieving better accountability of resource utilization. For this purpose, this subsystem allows the user to break down a course into a maximum of 64 modules.

The Instructor and Facility File Subsystems (Options 2 & 3) are used to add, edit, delete, and print instructor and facility data. With the availability tables provided in these subsystems, the user can specify the time slots during which instructors and facilities are not available for training related purposes.

Based on the course requirements and the availabilty of instructors and facilities, the Schedule File Subsystem (Option 4) is used to generate, update, and print preliminary schedules for all courses described in the Course File. After examining the generated schedules, the user may add, modify, and delete any session of the Schedule File. For instance, if the user desires to move a session to another starting date, the subsystem will check to see whether the resources needed are available or not and report their status.

The Calendar File Subsystem (Option 5) is used to generate a system calendar used throughout the system to show actual starting dates of the current scheduling fiscal year. This subsystem is capable of generating any calendar year, with adjustments made for all federal holidays, including a two week break for the Christmas/New Year period.

Figure 2 illustrates the major system options available with the TMS. The following discussion describes the general features common within each of the system options.

UPDATE OPTIONS

The update programs enable the TMS user to enter data into the various subsystem data files. Data is initially entered into a subsystem data file using the INPUT mode. Once a data record, indexed by CDP, instructor name, building number, etc. has been entered into a subsystem data file it may be changed using the EDIT mode. In the following discussion the term "data element" will refer to the data item used to reference a record in the subsystem data base. The data elements for the Course, Instructor, and Facility data bases are CDP, instructor name, and building/room number, respectively.

Efforts were made to make all TMS input/edit programs operationally identical. However, because of differences in the various TMS subsystems, it was not possible to do so. The features that are similar are discussed in the remainder of this section.

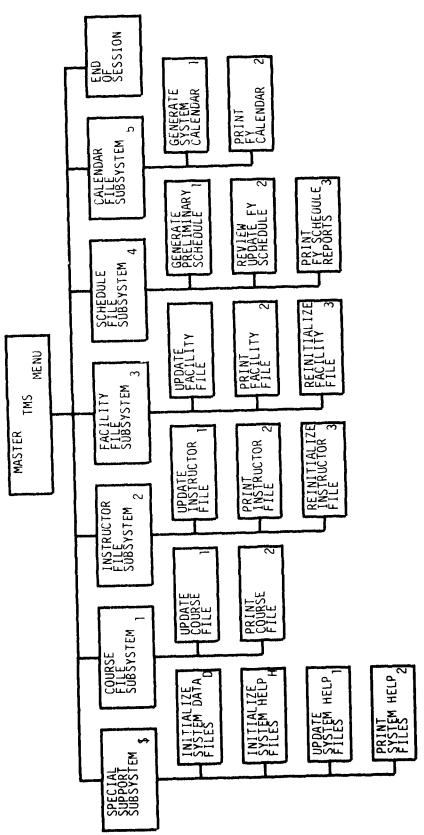


Figure 2. Overview of System Options

INPUT/EDIT OPTIONS

In INPUT mode, if the data element to be entered does not exist in the data base, the data record is appropriately initialized and displayed on the screen. However, if a data element already exists in the data base, the data record is displayed. An example of a data element request is:

In the EDIT mode, if the data element entered cannot be found in the data base, an error message will be displayed. In the case of the course and instructor data files, if the data element entered is not found then the program will display the next data element within the file and ask if the user wishes to edit that record. For example, the user enters 'SUE' as the name of an instructor to be edited. The system searches the data base and finds that 'SUE' is not in the file but that the next sequential record in the file is 'SUSAN'. The system will display the following:

TMS: UPDATE INSTRUCTOR FILE DATA 06/27/80 R 3 S 7

Please Enter Instructor Name: SUE

Insufficient information to process request.
The best that I can do is: SUSAN

* Touch 'N' for next -or- 'E' to edit: #

If 'SUSAN' is the instructor to be edited, touching "E" will cause the system to edit that data record. The user may ask the system to display the next data element in the data base by touching "N" until the desired data element is obtained.

All input/edit programs allow changes to be made to data currently displayed on the CRT screen by entering the appropriate code on a prompt line, always located on the last line of the display. Some data items, however, are calculated and/or maintained internally and thus cannot be updated by the user. The Date Last Reviewed, Hours Used, and Utilization are examples of this type of data item. The following is an example of a data entry menu.

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TMS:	INSTRUCTOR FILE DATA ENTRY - Menu 1 06/27/80 R 3 S 7
[1]	Name] SUSAN Date Last Reviewed] 06/27/80
[2]	SSN] ID] S0001 Date Last Changed] 06/27/80
[3]	Primary Sec #1 Sec #2 Sec #3 Sec #4 Instructor Quals]
[4]	Rank/Rate] Report Date] 0/0/0 PRD] 0/0/0
[5]	Max Contact Hours Annual] 4000 Weekly] 40 Daily] 8
[6]	<pre>Inst Availability Hours Used] 0 Utilization] 0.0 %</pre>
	Enter Option (RECALL, RETURN, line #, Save, Help, Print):

All data lines that may be edited are prefixed by a number enclosed in brackets, for example "[1]." The data items on a particular line may be changed by entering the line number. This will cause the cursor to move to the first data item on the line. At this time the user may change the data element or skip to the next data item by touching RETURN. The user may exit from a line by entering a ";" as the first character of a data item and touching RETURN. This action returns the cursor to the prompt line. The input/edit programs automatically return the cursor to the prompt line following the editing of the last data item on a line.

Several other codes may be entered on the prompt line. The user can obtain a hardcopy of the record currently being input/edited by touching "P". Once the user has made all necessary changes to a record, the record may be saved into the data base by touching "S". A "help" feature is also provided to briefly explain data items and illustrate examples on how to proceed. To view the "help" messages the user simply touches "H".

DELETE OPTIONS

The delete option of a subsystem will allow the user to remove data elements no longer needed from the data base. If the data element to be deleted is in the data base, the system will display a summary page of the data record and ask the user to verify that the data element chosen is the one to be deleted. The program will display on the last line of the display the following message:

Is this the record you wish to Delete (Y/N):

If the user enters a "Y" then the record is removed from the data base; otherwise, the program will ask the user for another data element to be deleted. If the data element to be deleted is not in the data base the following message is displayed and the program will ask the user for another data element to be deleted.

;; Unable to Locate in Key File ;;

PRINT OPTIONS

The print option of a subsystem enables the user to print a listing of the contents of the system data base. A print menu may look like:

TMS:	PRINT INSTR	UCTOR DATA BASE	08/12/80 R 3 S 1
	Option	Output Sequence	
1	1 2 3	Output by Instructor Nam Output by Instructor Qua Output by Instructor ID	le lification
ĺ	.	Return to Instructor Sub	system Menu
	Enter Op	tion: #	

Selecting "l", for example, the screen will display the following:

Instructor Name Sequence

Enter Starting Key or RETURN: #################

The prompt line asks for the starting instructor name to be entered. If only the RETURN key is pressed, the starting key defaults to the first instructor. After entering the starting key, the system prompts for the ending key to be printed:

Enter Ending Key or RETURN: ##################

Similar to the previous prompt, if only the RETURN key is pressed, the default is the last instructor.

On entering desired starting and ending values, the system will display the following and then begin processing data:

The printing can be interrupted by touching any key. Touching any key will cause the screen to display:

* Interrupted: 'C' to Continue, 'S' to Stop '

The user may touch "C" to continue printing or "S" to stop printing.

When the report has been comp'eted or interrupted and stopped, the program will return to the subsystem menu.

UPDATE AVAILABILITY TABLES

As noted earlier, availability tables are used to keep track of time slots during hich instructors and facilities are available for course assignment. A typical display may look like:

INSTRU	UCTUR I	ILE D	ATA ENT	TRY - I	1enu 2		08	/12/80	R 3	S 1
6 C C C	13	20	26	N 0 V 2	9	16	23	30	D C T	
123	2 123	3 123	4 123	5 123	6 123	7 123	8 123	9 123]0 123	
• • •	123 123 123	• • •	•••	}	• • •	• • •	.2.	•••	•••	
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	0 0 7 6 123	0 T 6 13 123 123 123 123 123 123 123	0 T 6 13 20 123 123 123 123 123 123 123 123	0 T 6 13 20 26 123 123 123 123 123 123	0	123 123 123 123 123 123 123	0	0	0	0

This display shows a 10-week portion of the 100 week availability table for an instructor. Each week is broken down into five days (monday-friday), and each day into three shifts. A "." indicates that the instructor is available on the designated day, a "1" or "2" or "3" indicates that the instructor is unavailable for shift 1, 2, or 3 on the designated day. The display also shows the starting date of each week and which week of the 100 weeks is being viewed.

An instructor/facility may be designated as being available or unavailable for selected periods of time (weeks, days, and/or shifts) throughout the 100-week period. The format for updating the table is madeup of four fields. The first, "command", is required. Fields 2, 3, and 4 are optional.

	command	/switch value (2)	/switch value (3)	/switch value (4)	
٠.					

The first, "command", must be either an "A" or "U". An "A" will mark the instructor/facility as available for the selected dates. A "U" will mark the instructor/facility as unavailable for the selected dates. If either "U" or "A" is used alone (fields 2-4 are omitted), it indicates the instructor/facility is unavailable or available for the entire 100-week scheduling period.

Fields 2-4, "switch value", have a similar format. A "switch" can be a "W", "D", or "S". A "W" is used to specify which weeks will be affected by the selected "command" (field 1). The "value" of weeks must be between 1 and 100. A "D" is used to specify which days of the week are to be affected by the selected "command". The "value" of days must be between 1 and 5. An "S" is used to specify which shifts of the day are to be affected by the selected "command." The "value" of shifts must be between 1 and 3. If a "switch" and its "value" is not entered then all weeks, and/or all days, and/or all shifts are assumed.

A "value" may be specified as a single value or as a range. A single value is simply the number of the week, day, or shift being specified. A range is two values separated by a "-". The first value specifies the starting value; the second value specifies the ending value of the weeks, days, or shifts being specified.

Some examples are:

U [set all weeks, all days, and all shifts unavailable]
U/W4/D2/S2-3 [set week 4, day 2 (tue), and shifts 2 and 3
as unavailable]
A/W3 [set all days, and all shifts available for week 3]

SECTION III TMS OPERATING PROCEDURES

This section presents the procedures for the use of the TMS. The user is assumed to have no familiarity with the operation of a WANG 2200 series computer system. However, because of the many equipment configurations that exist in the NAVEDTRACOM, it is assumed that personnel familiar with WANG computer hardware are available to set up the equipment for use. Step-by-step procedures are provided for using each of the TMS subsystems and are described in the following sections.

The TMS was designed to be highly interactive and user oriented. Consequently the TMS provides special user responses to facilitate its use. These special responses apply to specific displays and are explained in designated sections which describe the preparation of each display. A summary of apppropriate responses is displayed on the screen while the TMS is being used. This feature of the system eliminates the requirement that the user memorize procedures. Appropriately responding to the messages and instructions provided will lead to efficient and effective system utilization.

Two special keys are provided, the RECALL key located in the upper right corner of the keyboard (thin grey key on VP and T computers, square white key on MVP computers) and the RETURN or RETURN(EXEC) key. (There are two RETURN keys in different locations on the keyboard.) Pressing the RECALL key will always take the user back to the previous operation. The RETURN key will allow the user to execute the default option. When operating with a menu the default option is indicated by a ".". In most other cases the default is the next operation.

SETTING UP THE TMS

Note:

The TMS is designed to run on both a 2200T series and a 2200VP/MVP series CPU. Because of the different operating systems on these two CPU's, the set up commands will be divided into two groups showing the valid syntax for each operating system.

It is assumed that the necessary computer hardware (CRT, Disk Drive(s), and Line Printer) are available to the user. When the system has been set up the following will appear on the CRT display:

READY (BASIC-2 T/VP/MVP

To load the TMS system the user should type in the following commands:

:SELECT DISK xxx (*) :LOAD RUN	(RETURN) (RETURN)	VP/MVP

0R

:SELECT DISK xxx (*) :LOAD DCT "START" :RUN	(RETURN) (RETURN) (RETURN)	T
---------------------------------------------------	----------------------------------	---

(*) where "xxx" is replaced by the appropriate disk address where the TMS system programs disk is located.

Upon completion of the above step, the following display will appear on the screen:

*** Attention ***

All of the data entry prompts used throughout this system terminate (cursor moves to next prompt) automatically when full. If the RETURN key is pressed to terminate a prompt which has been filled the system assumes the RETURN pertains to the next prompt, which is then terminated. This automatic termination of full fields is incorporated into the system to increase user productivity by decreasing the necessary number of keystrokes. It may take some time getting used to, but in the long run is much more efficient.

Ready, Please touch RETURN to Continue... #

Upon touching RETURN the program will display:

Welcome to the Training Management System mm/dd/yy R 3 S 0 Please Enter Today's Date (mmddyy): ##### Please Enter Console Address: ### Please Enter Printer Address: ### System Course Instructor Facility Schedule Console Printer /xxx /xxx /xxx /xxx /xxx /xxx /xxx

To continue, the present date, console address, and printer address must be entered. After the last entry is made the following five questions will appear on the screen:

Please Enter the Disk Address of the disk drive containing SCHEDULE PROGRAMS: ###

Please Enter the Disk Address of the disk drive containing COURSE FILE DATA BASE: ###

Please Enter the Disk Address of the disk drive containing INSTRUCTOR FILE DATA BASE: ###

Please Enter the Disk Address of the disk drive containing FACILITY FILE DATA BASE: ###

Please Enter the Disk Address of the disk drive containing SCHEDULE FILE DATA BASE: ###

The system can be set up to default through the previous seven responses (console, printer, and disk addresses), so if there are no changes to be made to the default values, pressing RETURN seven times will allow the user to proceed to the final two responses in this section.

The system will now display the final two responses in the section:

Please Enter Your USER ID: ########

Please Enter PASSWORD: #######

The user ID is a 10 character code which identifies the user to the system. All allowable ID codes must be defined at system installation time and are then programmed into the system. A total of 16 user ID codes may be defined. The password is an eight character code which must be entered by all users before the system will continue to the next section. The password must also be defined at system installation time and is also programmed into the system. Once the user ID and password have been entered the screen will display:

which will immediately be followed by:

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TMS: * * * MAS	TMS: * * * MASTER TMS MENU * * * 08/17/80				
Option	Description of Subsystem	m			
\$	TMS Special Support Programs		-		
1 2 3 4 5	Course File Subsystem Instructor File Subsystem Facility File Subsystem Schedule File Subsystem Calendar File Subsystem				
. 1	End of Session				
Enter Option	: #				

The above display is called the "MASTER TMS MENU." It is the beginning and end of all subsystem operations. From this menu the user may select any one of the six available options.

When the system is used for the first time, all of the system data files must be initialized; otherwise any attempts to use the system will result in some error messages. To initialize all the system data files, option "D-Initialize System Data Files" of the Special Support Subsystem described in the next section must be executed. The system calendar must also be initialized by executing the Calendar File Subsystem option. Once all the initializations are completed, the Master TMS MENU will be displayed on the screen.

The user, at this point, may proceed to enter course, instructor, and facility data. The user then may generate and modify course schedules.

The remainder of this report describes each of the six subsystems available with the TMS.

SPECIAL SUPPORT SUBSYSTEM (MASTER TMS MENU OPTION "\$")

Figure 3 shows the various options available to the user of the TMS Special Support Subsystem.

Selecting option "\$", Special Support Subsystem, from the MASTER TMS MENU will cause the system to display:

which will be immediately followed by:

TMS: * SPECIAL	SUPPORT SUBSYSTEM MENU * 06/27/80	R 3	S 1
Option	Description of Subsystem		
D H	Initialize System Data Files Initialize System Help Files		
1 2	Update System Help Files Print System Help Files		
	Return to MASTER TMS MENU		
Enter Option	n: #		

OPTION "D" - INITIALIZE SYSTEM DATA FILES. This option is used to initialize all of the system data key files. All suboptions must be executed when the system is first installed. Additionally all suboptions of option "D" must be executed every time a new schedule is to be generated. Selecting option "D" from the above menu will result in the following display:

TMS: * FILE SELE	CTION MENU * OPTION D 06/27/80	R 3	S 1	
Option	Description of Subsystem			
1P 1S 2 3 4 5	Initialize Primary Course Data File Initialize Secondary Course Data File Initialize Instructor Data File Initialize Facility Data File Initialize Schedule Data File Initialize Calendar Data File			
Enter Option:	Return to SPECIAL SUPPORT SUBSYSTEM MEN	U		

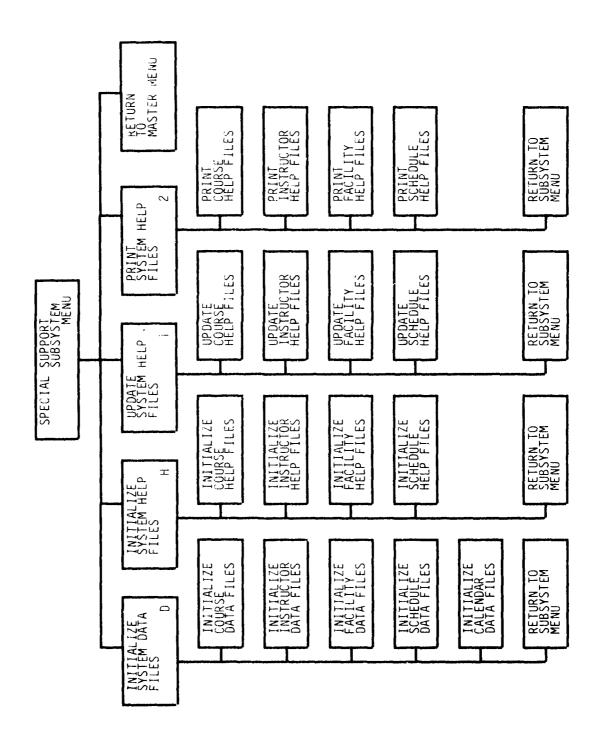


Figure 3. Special Support Subsystem (Master TMS Menu Option "\$")

All options on the File Selection Menu operate alike; option 4 is used for illustration. After entering a "4", the following message appears on the screen:

```
TMS: FILE INITIALIZATION 06/27/80 R 3 S 1

* * * SCHEDULE FILE INITIALIZATION * * *

Please enter the approx. number of data records that will be input into the file. The number input will be increased by 25% to allow for unexpected input. The number input may not exceed the system max of 1000 records.

Enter approx. Number of Records: ####
```

Entering the expected number of schedule records will cause the program to display:

```
Adjusted Number of Records is: ######
;; Please Mount Disk Platter on Disk: /### ;;
Touch RETURN(EXEC) When Ready...#
```

At this point, mount the disk which will contain the storbale data file on the designated disk drive and press RETURN. On touching RETURN, a description of the file to be initialized will appear on the screen:

Γ	TMS:	FILE	INITI	ALIZA	TION				06	/27/80	R 3	S 1
			*	* *	SCHE	DULE F	ILE I	AITIA	LIZAT	ION *	* *	
	Initi user	al- izing file	key file num	file type	sctr per rec	logcl rec len	blk fctr	key len	strt of key	numbr of rcrds	kfam ver	
)	TMSS	SF1	1	М	3	1	1	24	3	62	3	
			То	uch R	ETURN	(EXEC)	to	Proce	ed: #			

To initialize all data files related to the schedule subsystem, continue touching RETURN until the system returns to the File Selection Menu. If all subsystem data files have been initialized touchy an additional RETURN will return the system to the Special Support Subsystem Menu, otherwise, follow a similar procedure for the remaining subsystem data files.

OPTION "H" - INITIALIZE SYSTEM HELP FILES. This option is used to initialize all of the system help files. All suboptions must be executed when the system is first installed. Help files are used to store messages that the user may recall at various points in the system to facilitate the use of the system. Choosing option "H" from the Special Support Subsystem Menu will cause the screen to display:

TMS:	* HELP F	LE SELECTION MENU * 06/27/80 R 3 S 7
	Option Property	Description of Subsystem
_	1 2 3 4	Initialize Course Help Files Initialize Instructor Help Files Initialize Facility Help Files Initialize Schedule Help Files
	•	Return to SPECIAL SUPPORT SUBSYSTEM MENU
Enter	Option:	#

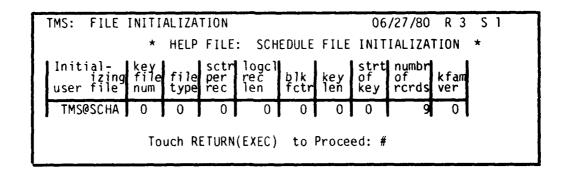
All options on the Help File Selection Menu operate alike; option 4 is used for illustration. After entering a "4", the following message appears on the screen:

```
TMS: FILE INITIALIZATION 06/27/80 R 3 S 1

* HELP FILE: SCHEDULE FILE INITIALIZATION *

;; Please Mount Disk Platter on Disk: /### ;;
Touch RETURN(EXEC) When Ready...#
```

At this point, mount the program disk on the designated disk drive and press RETURN. On touching RETURN, a description of the file to be initialized will appear on the screen:



To initialize all help files related to the schedule subsystem, continue touching RETURN until the system returns to the Help File Selection Menu. If all subsystem help files have been initialized touching an additional RETURN will return the system to the Special Support Subsystem Menu, otherwise, follow a similar procedure for the remaining subsystem help files.

OPTION "1" - UPDATE SYSTEM HELP FILES. This option may be used to update the messages contained in all of the system help files. Selecting option "1" from the Special Support Subsystem Menu will cause the program to display:

TMS: * HELP F	ILE UPDATE (COURSE FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
C1 C2 C3 C4	Course File Data Entry Menu Help Course File Data Entry Menu 2 Help Course File Data Entry Menu 3 Help Course File Data Entry Menu 4 Help
N2	Next Page of Options Return to SPECIAL SUPPORT MENU
Enter Opt	ion: ##

In the course file subsystem, there are four menus. Options C1, C2, C3, and C4 correspond to each of the four menus. Entering option C2, for example, will lead to display:

```
TMS: Course File Data Entry Mepu 2 Help 08/20/80 R 3 S 1
```

The user is now free to update the help file message. Special function keys I through 15 and 20 through 30 may be used to move the cursor and modify the text in the help file. Figure 4 gives a brief summary of the available special functions.

SF I	key	Description of Function
1		Display the next 12 lines of the text file. Each text file contains 36 lines of text.
2		Find a specified character string. Entered after touching SF '2, the program will begin the search when RETURN is touched.
3		Copy a specified character string. The source string is specified by first positioning the cursor to the start of the string by touching SF '3, then positioning the cursor at the end of the string and again touching SF '3, the cursor is then positioned at the destination point and SF '3 is touched a third time. Touching "I" or "R" will cause the specified string to be inserted at the current location or to replace the text at the current location.
4	(20)	Move the cursor to the end of the text file.
5	(21)	Move the cursor down one (five) line(s).
6	(22)	Move the cursor up one (five) line(s).
7	(23)	Move the cursor to the beginning of the text file.
8	(24)	Erase all text from the current cursor position to the end of the text file.
9	(25)	Delete one character (line) from the text file.
10	(26)	Insert one character (line) into the text file.
11	(27)	Move the cursor five characters to the right.
12	(28)	Move the cursor one character to the right.
13	(29)	Move the cursor one character to the left.
14	(30)	Move the cursor five characters to the left.

Figure 4. Summary of Text File Special Function Keys

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Additional options may be selected by entering option "N2" or by touching RETURN. All additional displays are shown below:

TMS:	* HELP F	ILE UPDATE (INSTRUCTOR FILE) * 08/20/80 R 3 S 1
	Option	Description of Subsystem
]	I1 I2	Instructor File Data Entry Menu l Help Instructor File Data Entry Menu 2 Help
	N3	Next Page of Options Return to SPECIAL SUPPORT MENU
L	Enter Opt	ion: ##

TMS: * HELP	FILE UPDATE (FACILITY FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
F 1	Facility File Data Entry Menu l Help Facility File Data Entry Menu 2 Help
N4	Next Page of Options Return to SPECIAL SUPPORT MENU
Enter (ption: ##

TMS: * HELP F	ILE UPDATE (SCHEDULE FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
S1 SS345 SS5 SS5 SS5 SS5 SS5 SS5 SS5 SS5 SS5 S	Schedule File Generation Program Help Schedule File Update Program Help Schedule File Data Entry Help Schedule Program: Mount Message Schedule Program: Remount Message Schedule Program: File not empty Schedule Program: File empty
N1 ••	First Page of Options Return to SPECIAL SUPPORT MENU
Enter Opt	ion: ##

OPTION "2" ~ PRINT SYSTEM HELP FILES. This option may be used to print all of the help file messages on the printer. Selecting option "2" from the Special Support Subsystem Menu will cause the program to display:

TMS: * HELP F	ILE PRINT (COURSE FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
C1 C2 C3 C4	Course File Data Entry Menu 1 Help Course File Data Entry Menu 2 Help Course File Data Entry Menu 3 Help Course File Data Entry Menu 4 Help
N2	Next Page of Options Return to SPECIAL SUPPORT MENU
Enter Opt	ion: ##

Additional options may be selected by entering option "N2" or by touching RETURN. All additional displays are shown below:

TMS: * HELP F	ILE PRINT (INSTRUCTOR FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
I 2 I 1	Instructor File Data Entry Menu l Help Instructor File Data Entry Menu 2 Help
N3	Next Page of Options Return to SPECIAL SUPPORT MENU
Enter Opt	ion: ##

TMS: * HELP F	ILE PRINT (FACILITY FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
F1 F2	Facility File Data Entry Menu 1 Help Facility File Data Entry Menu 2 Help
N4 ••	Next Page of Options Return to SPECIAL SUPPORT MENU
Enter Opt	ion: ##

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TMS: * HELP F	ILE PRINT (SCHEDULE FILE) * 08/20/80 R 3 S 1
Option	Description of Subsystem
S2 S2 S5 S5 S7 N1	Schedule File Generation Program Help Schedule File Update Program Help Schedule File Data Entry Help Schedule Program: Mount Message Schedule Program: Remount Message Schedule Program: File not empty Schedule Program: File empty Schedule Program: File empty First Page of Options Return to SPECIAL SUPPORT MENU
Enter Opt	ion: ##

All options on the Help File Print Menu operate alike; option "S2" is used for illustration. After entering "S2" the program will print the contents of the text file onto the system printer. (To select the system printer, see SETTING UP THE TMS section of this report.) When printing is completed the program will redisplay the first Help File Print Menu (the Course File).

COURSE FILE SUBSYSTEM (MASTER TMS MENU OPTION "1")

Figure 5 shows the various options available to the user of the TMS Course File Subsystem.

Selecting option "l", Course File Subsystem, from the MASTER TMS MENU will cause the system to display:

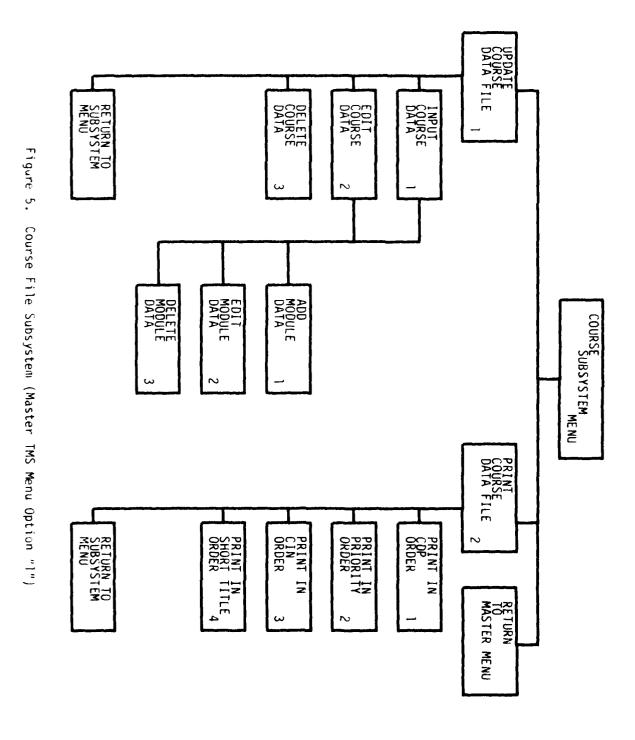
which will be immediately followed by:

TMS: * COURSE FILE SUBSYSTEM MENU * 06/27/80			R 3	S 1		
Option Description of Subsystem						
	1 2	Update Course File Print Course File		-		
1	. 1	Return to MASTER TMS MENU				
Enter Option: #						

Option "1" - UPDATE COURSE FILE. Selecting option "1" from this menu will result in the following display:



which will be immediately followed by:



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TMS: COURSE FILE	JPDATE MENU	06/27/80 R 3 S	7
Option	Edit Operation		
2 3	Add to Course File Edit Course File Data Delete Course File Data		
	Exit and Return to Subsystem	Menu	
Enter Option:			

Choosing option 1, 2, or 3 from the Update Menu will cause the screen to display:

TMS: COURSE FILE DATA	06/27/80 R 3 S 7
Please Enter CDP Number:	####

For options 1, 2, and 3, entering the desired CDP number will cause the CRT screen to display the following:

TMS: COURSE [1] CDP] 111 [2] CIN] A 1 [3] Course Ti advanced theo class cla size inp	l tles rv involv	RMS v Lon ina the	Da Jah gv balan	te La 1 Pri Sho cina	st Rey ority rt] of sp!	(iewed] adv b	07/30/ 1.1 b stack structu	ing res
[4] 7 1 [5] Contact R 25/100 ; 1 number of modules	5/25:	ype/nou 4/ 18	07	0: 0	07 0.	: 0/	0 0; 0/ c sses	6 () aob
[0] 4 [7] Update Co Enter Opt				. -		/50 pility C e, Help,		

The inputting, editing, and deleting of the data items are described in the SYSTEM OPTIONS section of this report. Figure 6 gives a summary description of the data items shown above.

Line/Option

Description of data items and/or functions

- Course Data Processing (CDP) Code. A code that identifies each course of instruction by location. Identical courses taught in different locations will have individual CDP codes. It becomes the enlisted Training History Code.
- 2. Course Identification Number(CIN). The 10-position alphanumeric CIN used in the Catalog of Navy Training Courses. This identifies the command sponsoring the course, the DOD skill code for which the course trains and the sequence number to facilitate locating the course within the course catalog.
 - . RMS Cost Code (RMS). A code to identify funding support of the course.
 - Priority. A code to record the scheduling priority for each course.
- Course Long Title (Long). Full descriptive title of the course. [Read down.]
 - Course Short [itle (Short), Abbreviated descriptive title of the course. [Read across.]
- 4. Class Size. The current limiting capacity for the course.
- Planned Input. The current total anticipated annual demand for the course.
- . Course length. The number of calendar days that expire from the class convening date to the class graduation date.
- Instructors: MPA, Onboard, and Required. The number of instructors authorized, available, and required for the course.
- Support: MPA and Onboard. The number of support personnel authorized and available for the course.
- Trainers Available and Required. The number of simulated or operational training equipment available for the course.
- 5. Contact Ratios. The ratio of type hours to hours for this type. Type hours is the students to instructor ratio. Up to seven contact ratios may be entered.
- 6. Number of Modules. The number of modules to comprise a course as defined by the user.
 - Start Date, week and day-of-week. The desired week and day-of-week to schedule the first convening.
 - Number of convenings and convening frequency. The number convenings and convening frequency for shifts 1, 2, and 3.
- . Concurrent Classes (C/C). The number of convenings of the same course being concurrently convened.
- Average on Board (AOB). A number which represents the average number of students at an activity over a liyear period.
- Update Course Module Data. This enables the user to create and maintain modules of courses.
- 8. Feasibility Calculations. This option allows the user to perform various calculations of instructor and trainer requirements on the basis of changes to input parameters so that the feasibility of course schedules can be assessed.

Figure 6. Summary of Course File Data Items (Menu 1)

Item 7 enables the user to add and maintain modules of courses. Entering "7" results in the following display:

```
TMS: COURSE FILE DATA ENTRY - Menu 2 08/20/80 R 3 S 1

Modules Defined For This Course:

1, 2, 3

[1] Add a module.
[2] Update a module.
[3] Delete a module.
[4] Return to menu l.

Enter Option (RECALL, RETURN, option #, Save, Help, Print): #
```

In the example, three modules are defined. The options on this menu operate alike; option 2 is used for demonstration. Selecting this option will cause the screen to display:

```
TMS: COURSE FILE DATA ENTRY - Menu 2 08/20/80 R 3 S 1 Modules Defined For This Course:

1, 2, 3

[2] Update a module.

Enter Module Number (1-64): ##
```

The user may now enter the desired module number to be updated. Touching RETURN here brings the user back to the previous display. After entering the desired module number, the program will display:

The module record may now be processed using those options described in the SYSTEM OPTIONS section of this report.

Item 8 of the Course Data Entry File - Menu l enables the user to perform various calculations of instructor and trainer requirements on the basis of changes to input parameters so that the feasibility of course schedules can be assessed. Entering "8" will cause the program to display:

TMS:	COURSE FILE DATA ENTRY - Menu 3	07/30/80 R 3 S 1			
1	Automatic Feasibility Calculation (Options			
[1] [2] [3] [4] [5]	Compute Class Size based on Convenings Compute Convenings based on Input and Scompute Convenings based on Input and Scompute Instructor Requirements Compute Trainers Required Compute Sessions based on Student per Return To Previous Display	olze (weeks)			
Enter	<pre>Enter Option (RECALL, RETURN, option #, Save, Help, Print): #</pre>				

The user may select to perform a combination of calculations available on the Menu with some exceptions. Options 1, 2, and 3 must not be selected at the same time. Computations of instructor requirements in option 4 follow the CNO 1000/2 report.

After selecting an option the program will display an "i" next to the function selected. When the operation is complete the program will change the "i" to a "*" indicating that the operation is completed. An "i" remaining displayed means that the operation could not be completed properly due to a conflict of input parameters. The user should check all input data for accuracy and after correcting re-execute the option. An example of such a display is shown below:

```
TMS: COURSE FILE DATA ENTRY - Menu 3 07/30/80 R 3 S 1

Automatic Feasibility Calculation Options

[1] Compute Class Size based on Convenings and Input Compute Convenings based on Input and Size (days)

**Compute Convenings based on Input and Size (weeks)

**Compute Convenings based on Input and Size (weeks)

**Compute Instructor Requirements

**Compute Trainers Required
[6] i Compute Sessions based on Student per Instructor Ratio Return To Previous Display

Enter Option (RECALL, RETURN, option #, Save, Help, Print): #
```

Option 6 computes the number of required sessions for each module defined, based on the course class size and the student per instructor ratio. Therefore, all modules should be checked for proper values. After all functions have been performed, touching RETURN or "7" will cause the program to return to "COURSE FILE DATA ENTRY - Menu 1."

The "Save" option must be used to save the data into the course data base. Before data gets saved, the system checks to see whether the data to be saved are reasonable in terms of sufficient instructors, trainers, facilities, and convenings. Such checking is critical if schedules are to be generated based on the reasonableness of the data saved. If the data to be saved appears unreasonable, such messages as ";; Insufficient Instructors;;", ";; Insufficient Trainers;;", or ";; Insufficient Convenings;;" will be displayed on the last line of the display, and the data does not get saved. Appropriate changes to the data elements are needed before the data may be saved.

OPTION "2" - PRINT COURSE FILE. Selection of option "2" on the Course File Subsystem Menu will cause the program to display:

TMS: PRINT COURSE FILE DATA	08/20/80 R 3 S 1
Option	Output Sequence
1 2 3 4	Output by CDP Output by Priority Output by CIN Output by Short Title
	Return to Subsystem Menu
Please enter Option	on: #

As shown in the Menu, the course file can be printed by CDP, priority, CIN, and short title. Procedures on how to print the Course data base are described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS.

A sample output of the course file data is shown in the appendix.

INSTRUCTOR FILE SUBSYSTEM (MASTER TMS MENU OPTION "2")

Figure 7 shows the various options available to the user of the INSTRUCTOR FILE SUBSYSTEM.

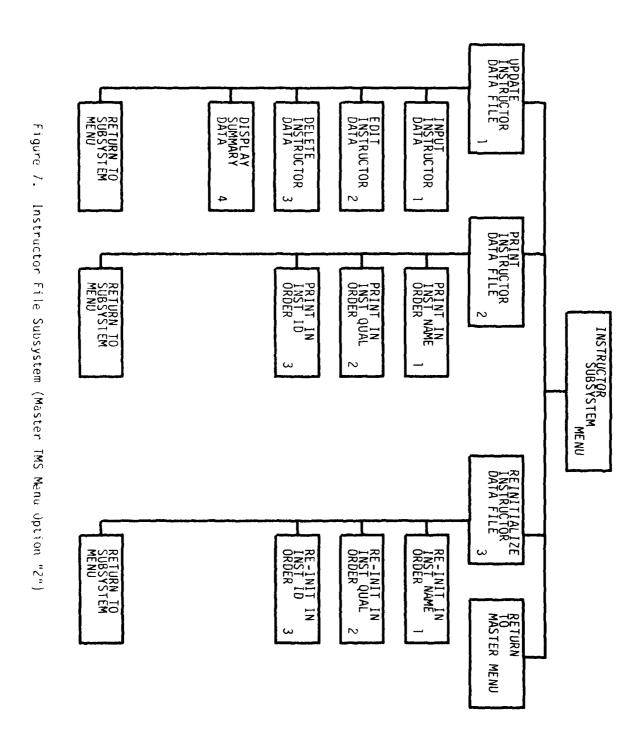
Selecting option 2, Instructor File Subsystem, from the MASTER TMS MENU, will result in the following display:

which will be immediately followed by:

TMS: * INSTRUCTOR FILE SUBSYSTEM MENU * 06/27/80				
Option	Description of Subsystem	İ		
1 2 3	Update Instructor File Print Instructor File RE-Init Instructor File			
	Return to MASTER TMS MENU			
Enter Option:	#			

OPTION "1" - UPDATE INSTRUCTOR FILE. Selecting option "1" from this menu will cause the program to display:

which will be immediately followed by:



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TMS:	INSTRUCTOR FI	LE UPDATE MENU	06/27/80
	Option	Edit Operation	
	1 2 3 4	Add to Instructor File Edit Instructor File Data Delete Instructor File Data Display Instructor Data Summa	ary
	. 1	Exit and Return to Subsystem	Menu
	Enter Option:		

Selecting option 1, 2, or 3 from the Instructor File Update Menu will cause the program to display:

TMS: INPUT INSTRUCTOR FILE DATA	06/27/80 R 3 S 7
Please Enter Instructor Name:	############

For options 1, 2, and 3 entering the desired instructor name will cause the program to display:

TMS:	INSTRUCTOR FILE DATA ENTRY - Menu 1 06/27/80 R 3 S 7
[1]	Name] SUSAN Date Last Reviewed] 06/27/80
[2]	SSN] ID] S0001 Date Last Changed] 06/27/80
[3]	Primary Sec #1 Sec #2 Sec #3 Sec #4 Instructor Quals]
[4]	Rank/Rate] Report Date] 0/0/0 PRD] 0/0/0
[5]	Max Contact Hours Annual] 4000 Weekly] 40 Daily] 8
[6]	Inst Availability Hours Used] O Utilization] 0.0 %
	Enter Option (RECALL, RETURN, line #, Save, Help, Print):

The inputting, editing, and deleting of the data items are described in the SYSTEM OPTIONS section of this report. Figure 8 gives a summary description of the data items shown above.

Line/Option	Description of Instructor Data Items				
1.	NAME. Used for instructor name. It is recommended to enter last name first, followed by initials with space. Maximum length is 24 characters, including spaces.				
2.	SSN. A field of nine alphanumeric length for instructor social security number. Do not enter "-"'s.				
	ID. An instructor code internally maintained by the system.				
3.	INSTRUCTOR QUAL. A field of four characters for instructor qualifications. Any value can be assigned. To be useful the qualification you assign here must match the qualification assigned to the module instructor qualification in the Course File Data Base.				
4.	RANK/RATE. A field of five alphanumeric length for instructor rank or rate.				
5.	MAXIMUM CONTACT HOURS. This field allows you to specify the maximum hours that an instructor may be used during the 50 week fiscal year.				
6.	INSTRUCTOR AVAILABILITY. This will allow the user to block out the periods in which the instructor is unavailable for class assignment.				

Figure 8. Summary of Instructor File Data Items

Item 6 enables the user to update the instructor's availability table. The procedure for this is described in the SYSTEM OPTIONS section of this report under UPDATE AVAILABILITY TABLE.

Option 4, of the Instructor File Update Menu, provides the user with the capability to review instructor data. Selecting option 4 will cause the screen to display:

TMS:	DISPLAY INSTRUCTOR SUMMARY DATA	06/27/80	R 3	S 7
	Please enter output device (CRT or LPT):	CRT		
}	Please enter Output Option (1-3): 1			
	1 - Output by Instructor Name2 - Output by Instructor Qual3 - Output by Instructor ID	ification		

Three display options are available. Display options 1, 2, and 3 will display summary data by instructor name (alphabetically), by instructor qualifications, and instructor ID, respectively. The following is a sample display by instructor name:

TMS: [DISPLAY INSTRUCTOR SUMMA	ARY DATA	0	6/27/80) R 3	S 7 [1]
Inst ID	Instructor Name	Rank/ Rate	Pri Qual	Hours Avail	Hours Used	Utilization
\$0001 \$0002 \$0003 \$0004	CHUCK KAY MARY MONA MARY ANNE SUSAN SHARON SARA SANDY ND OF LIST;; Touch RET	TURN or	RECAL	4000 4000 4000 4000 4000 4000 4000 400	0000000 000000000000000000000000000000	0.0 % 0.00 %% 0.00 %% 0.00 % 0.00 % 0.00 % 0.00 %

OPTION "2" - PRINT INSTRUCTOR FILE. Choosing option "2" on the Instructor File Subsystem Menu will cause the program to display:

TMS: DISPLAY INSTRUCTO	FILE DATA 08/20/80 R 3 :	5 1
Opti	Output Sequence	
1 2 3	Output by Instructor Name Output by Instructor Qualific Output by Instructor ID	าทุ
	Return to Subsystem Menu	
Please enter Op	on: #	

As shown in the Menu, the instructor file can be printed by instructor name, instructor qualification, and instructor ID. The procedures on how to print the Instructor data base are described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS. A sample output of the instructor file data is shown in the appendix.

OPTION "3" - RE-INITIALIZE INSTRUCTOR FILE. This option of the Instructor File Subsystem will allow the user to clear the availability table for all or some of the instructors defined in the Instructor Data Base. This option should always be selected before the generation of a preliminary schedule (Schedule File Subsystem Option 1).

Choosing option "3" on the Instructor File Subsystem Menu will cause the program to display:

TMS: RE-INIT INSTRUCTOR FIL	E DATA 08/20/80 R 3 S 1
Option	Output Sequence
2 3	Re-init by Instructor Name Re-init by Instructor Qualification Re-init by Instructor ID
. 1	Return to Subsystem Menu
Please enter Option:	#

The operation of this program is similar to the print program. The procedures on how to print the Instructor Data Base are described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS.

FACILITY FILE SUBSYSTEM (MASTER TMS MENU OPTION "3")

Figure 9 shows the various options available to the user of the FACILITY FILE ${\sf SUBSYSTEM}$.

Selecting option 3, Facility File Subsystem, from the MASTER TMS MENU, will result in the following display:

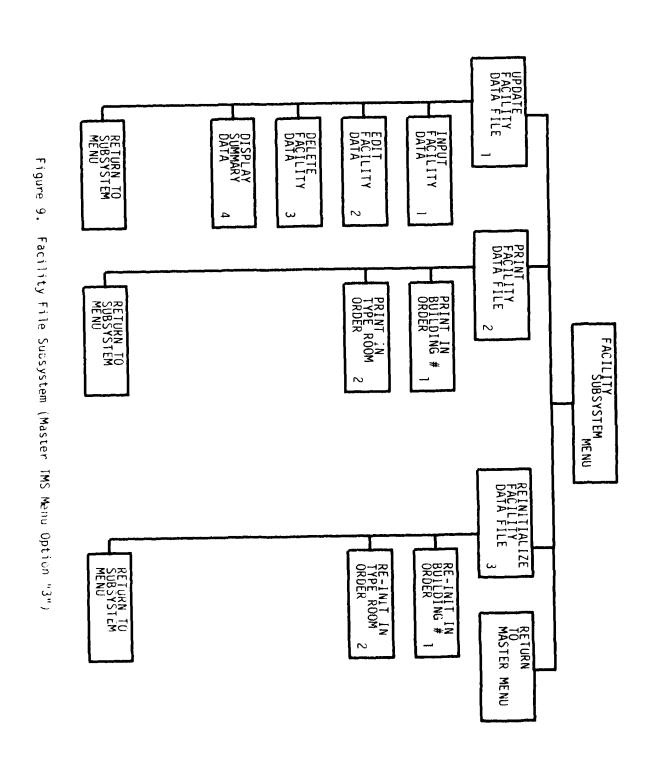
which will be immediately followed by:

TMS: * FACIL	ITY FILE SUBSYSTEM MENU *	06/27/80
Option	Description of Subsystem	
1 2 3	Update Facility File Print Facility File RE-Init Facility File	
	Return to MASTER TMS MENU	
Enter Option:	#	

OPTION "1" - UPDATE FACILITY FILE. Selecting option "1" from this menu will cause the program to display:



which will be immediately followed by:



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TMS:	FACILITY FILE	UPDATE MENU	06/27/80
	Option	Edit Operation	
	1 2 3 4	Add to Facility File Edit Facility File Data Delete Facility File Data Display Facility Data Summary	
	. 1	Exit and Return to Subsystem M	enu
	Enter Option	:	

Selecting option 1, 2, or 3 from the Facility File Update Menu will cause the program to display:

TMS: INPUT FACILITY FILE DATA	06/27/80 R 3 S 7	
Please Enter Building Number: #####		
Please Enter Room Number (rrr.ss): #####		

For options 1, 2, and 3 entering the desired building and room number will cause the program to display:

TMS: FACILITY FILE DATA ENTRY - Menu	1 08/24/80 R 3 S 7
[1] Type Room: 1 Special Qual:	Date Last Reviewed: 08/20/80 Data Last Changed:
[2] Building Number: 11111	
[3] Room Number: 11.11	
[5] Building Name: simulator test room (multi-stage bb s	tacker)
[6] Room Availability [7] Hours Hours Used:	Room is Available: 4000 O Utilization: 0.0 %
Enter Option (RECALL, RETURN, line #	, Save, Help, Print): #

The inputting, editing, and deleting of the data items are described in the SYSTEM OPTIONS section of this report. Figure 10 gives a summary description of the data items shown above.

Line/Option	Description of Facility Data Items
1.	Type Room. This is a two digit code to describe the type of room being defined. Five suggested values are: 00 - Special, 01 - Theory, 02 - Lab, 03 - Theory and Lab, and 04 - Trainer. A user may enter any other value into this field to match any requirements they may have. When a value of "00" is entered the user must define a 16 character "Special Qualification" field to be used to identify the room.
2.	Building Number. A five character code which identifies the building.
3.	Room Number. A six character code which identifies the room.
4.	Room Size. A number which represents the largest size class which may be scheduled in the room.
5.	Building Name. A 64 character field in which the user may describe the room.
6.	Room Availability. This will allow the user to declare period in which the room is unavailable for use.
7.	Hours Room is Available. This is the total number of hours in which the room is available for use throughout the year.

Figure 10. Summary of Facility File Data Items

Item 6 enables the user to update the facilities' availability table. The procedure for this is described in the SYSTEM OPTIONS section of this report under UPDATE AVAILABILITY TABLE.

Option 4, of the Facility File Update Menu, provides the user with the capability to review facility data. Selecting option 4 will cause the screen to display:

IMS:	DISPLAY FACILITY SUMMARY DATA	06/27/80	R 3	S 7
1	Please enter output device (CRT or LPT):	CRT		
ł	Please enter Output Option (1-2): 1			
	1 - Output by Building Number 2 - Output by Type of Room			

Two display options are available. Display options 1 and 2 will display summary data by building/room number and type of room, respectively. The following is a sample output by building number:

TMS:	DISPLA	AY FACI	LITY SUMMARY DATA	0	6/27/8	0 R 3	S 7 [1]
Type Room	Blding Number	Room Number	Special Qualification	Room Size	Hours Avail	Hours Used	Utilization
01 01 01 01 02 01 03	I NE OF	001.00 001.01 001.02 001.03 001.04 001.05 001.05 001.08	; Touch RETURN c	40 29 30 35 50 120 50 12 8	2040 2040 2040 2040 4000 4000 4000 4000	1952 1888 1928 2040 2016 1880 1976 eturn	95.6 % 92.5 % 100.8 % 98.0 1 % 98.8 % 92.8 % 49.4 % to menu

OPTION "2" - PRINT FACILITY FILE. Choosing option "2" on the Facility Subsystem Menu will cause the program to display:

TMS:	DISPLAY FACIL	ITY FILE	DATA	08/20/80	R 3	S 1
{		Option	Output Sequence			
1		2	Output by Buildir Output by Type o	ng Number f Room		
}			Return to Subsys	tem Menu		
	Please ente	er Option:	#			

As shown in the Menu, the facility file can be printed by building/room number, and by type of room. The procedures on how to print the Facility Data Base are described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS. A sample output of the facility file data is shown in the appendix.

OPTION "3" - RE-INITIALIZE FACILITY FILE. This option of the Facility File Subsystem will allow the user to clear the availability table for all or some of the rooms defined in the Facility Data Base. This option should always be selected before the generation of a preliminary schedule (Schedule File Subsystem Option 1).

Choosing option "3" on the Facility File Subsystem Menu will cause the program to display:

TM	1S: RE-INIT FACIL	ITY FILE	DAT 08	/20/80	R 3	SI	\neg
		Option	Output Sequence		_		
	•	2	Re-init by Building Re-init by Type of	Numbe Room			- [
}		.	Return to Subsystem	Menu			
	Please ente	r Option:	#				

The operation of this program is similar to the print program. The procedures on how to print the Facility Data Base are described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS.

SCHEDULE FILE SUBSYSTEM (MASTER TMS MENU OPTION "4")

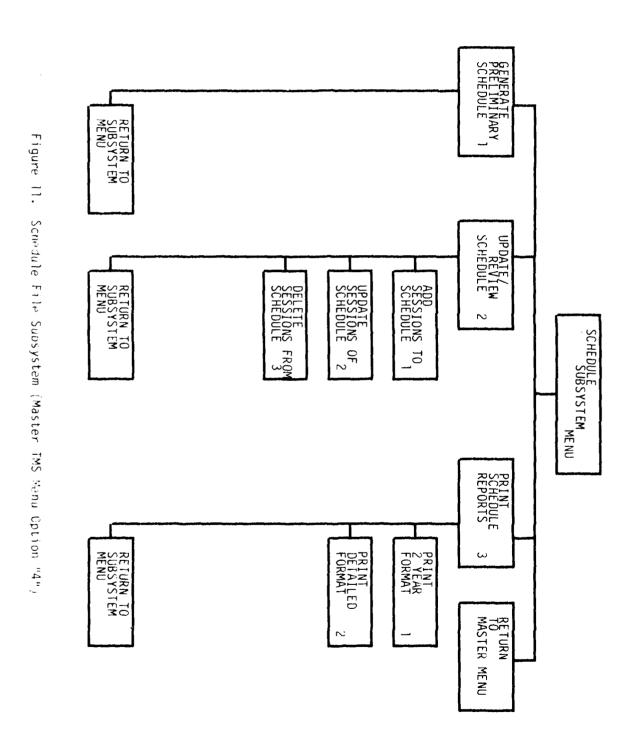
Figure 11 shows the various options available to the user of the SCHEDULE FILE SUBSYSTEM.

Selecting option 4, SCHEDULE FILE SUBSYSTEM, from the MASTER TMS MENU, followed by pressing RETURN will result in the following display:

which will be immediately followed by:

TMS: * SCHEDU	LE FILE SUBSYSTEM MENU *	06/27/80
Option	Description of Subsystem	
2 3	Generate Preliminary Schedule Review, Update FY Schedule Print Schedule Reports	
	Return to MASTER TMS MENU	
Enter Option:	#	

OPTION "1" - GENERATE PRELIMINARY SCHEDULE. Selecting option 1 causes the screen to display:



If the user needs help, touching any character will cause the program to display the following screens of information. (Note: the contents of these screens may be changed using Special Support Option 1, see the SPECIAL SUPPORT SUBSYSTEM section of this report for more information.)

TMS: SCHEDULE GENERATION

08/20/80 R 3 S 1

- 1. All courses in the Course File subsystem have been created and updated to reflect the most current number of convenings and convening frequency and that all modules be defined.
- 2. The Instructor and Facility Files have been re-initialized (option 3 of the Instructor/Facility subsystem menu).
- * Touch RETURN for more Help or RECALL to return to menu

TMS: SCHEDULE GENERATION

08/20/80 R 3 S 1

The last, but most important

3. That ALL the Schedule Subsystem Data Files be initialized using option D of the Special Support Subsystem (option \$ - Master Menu). Under option D be sure to select ONLY option 4 (Schedule Data Files).

Now, and only now, are you ready to generate a schedule.

* Touch RETURN for more Help or RECALL to return to menu

Should the Schedule Data File contain data the program will display the following:

TMS: SCHEDULE GENERATION

07/31/80 R 3 S 1

The schedule file currently contains data. This data may conflict with new data generated by this program. In the event of conflict the old data record is preserved.

If you wish to CONTINUE touch RETURN, otherwise touch RECALL and re-initialize the SCHEDULE Data Files.

* ;; END OF HELP ;; Touch RETURN or RECALL to return to menu

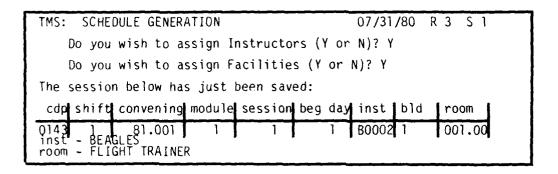
Once all the data files have been properly prepared and mounted the program will ask the user if they wish the program to make instructor and facility assignments. The program does this by displaying the following:

```
TMS: SCHEDULE GENERATION 07/31/80 R 3 S 1

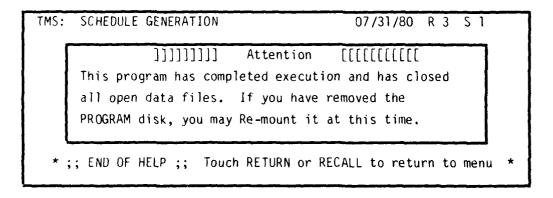
Do you wish to assign Instructors (Y or N)? #

Do you wish to assign Facilities (Y or N)? #
```

Once the user has selected the desired options the program will begin to build the Schedule data file for all courses contained in the Course data file. As session data is being generated the program will display the following showing the various course assignments.



Once all courses have been processed the program will display:



Upon touching RETURN the program will return to the Schedule Subsystem Menu.

OPTION "2" - REVIEW AND UPDATE FISCAL SCHEDULE. Selection of option "2" on the Schedule File Subsystem Menu will cause the program to display:

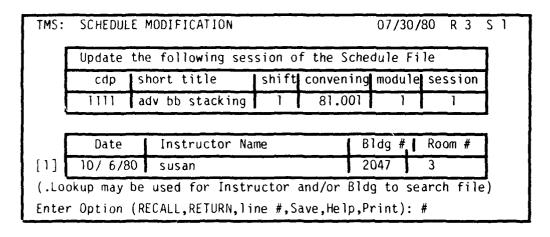
Touching RETURN will cause the program to proceed with the program and display the following:

TMS:	SCHEDUL	E MODIFICATION	07/3	0/80	R 3	S 1	
l	Option	Update Function					
] 2 3	Add Sessions to Update Sessions Delete Sessions	Schedule from Schedule from Schedule	. "			
		Return to Schedu	le Subsystem Menu				
Ente	r Option:						

For options 1, 2, and 3, the program will display:

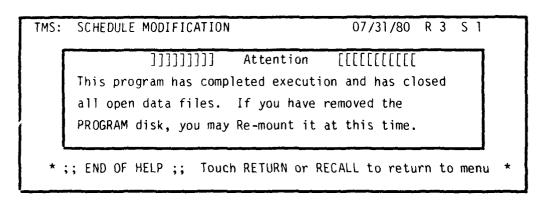
					<u> </u>		
1	Update	the following s	session of	the Sche	dule Fi	le	
- [cdp	short title	shift	convening	module	session	
- 1	####		#	##.##	##	##	İ

Upon entering the requested information, the program will look up the session record and display the following:



The inputting, editing, and deleting of the data items are described in the SYSTEM OPTIONS section of this report.

Touching RETURN without entering a CDP number will cause the program to display:

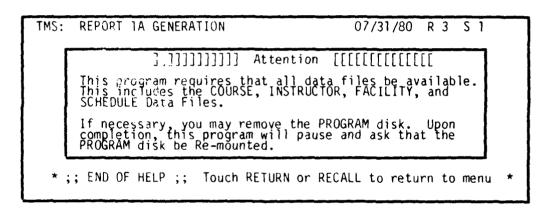


Upon touching RETURN the program will return to the Schedule Subsystem Menu.

OPTION "3" - PRINT SCHEDULE REPORTS. Selection of option "3" on the Schedule File Subsystem Menu will cause the program to display:

TMS: * SCHEDULE	REPORT SELECTION MENU * 07/31/80 R 3 S 1
Option	Description of Subsystem
1 2	Single-Page 2 Year Graphic Report Single-Page Detail Format Reports
	Return to SCHEDULE SUBSYSTEM MENU
Enter Option:	#

Selection of option "1" from the Schedule Report Selection Menu will cause the program to display:

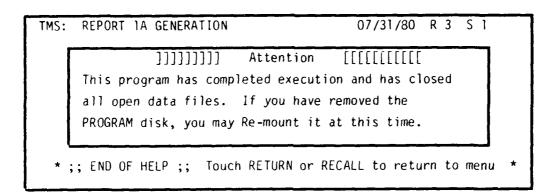


Touching RETURN will cause the program to proceed with the program and display the following:

TMS: REPORT 1A G	ENERATION	07/31/80	R 3	S 1
Option	Output Sequence			
) 2 3 4	Output by CDP Output by Priority Output by CIN Output by Short Title			
Enter Option:	#			

From this point the program operates as described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS.

Upon completion of printing the report the program will display:



Upon touching RETURN the program will return to the Schedule Report Selection Menu. Figure 12 shows an example of the 2 Year Graphic Format Report.

Selection of option "2" from the Schedule Report Selection Menu will cause the program to display:

TMS: * REPORT 2	SELECTION MENU *	07/31/80 R 3 S 1
Option	Description of	Subsystem
1 2 3 4	Single-Page Detail For Single-Page Detail For Single-Page Detail For Single-Page Detail For	mat by Course mat by Instructor mat by Facility mat by Convening Day
•	Return to REPORT SELEC	TION MENU
Enter Option:	#	

Selection of option 1, 2, 3, or 4 from the above menu will cause the program to display:

SHORT TITLE LONG TITLE	MINE CM OF	INSTRUCTORS SUPPORT	UNBUARD REQUIRED MANPONER ONGUNKD MYALLABLE REQUIRED		CONVERTINGS	SHIFT S CLASSES AVERAGE UN-SUARD CLASSES AVERAGE UN-SUARD	\ D 9%	FY 82	81.003/	
PRIORITY	000.0		MARPOWER AUTHORIZES			1 V	:]	A A U R Y N U 80122011200173	******(8].003/	
RMS	- AHAA		13 II 12 II 13 II 13 II 13 II 13 II 13 II 13 II 13 II 13 II 14 II 15 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II 16 II		3+40	¥-0-8	7	44 80012 329630		
CIN	A 02G 0014		CLASS NP.	5 1.1	STA	AFFR		D	1.001)	
0 1 doo	0143 A	-	OLASS OLASS	1	TAREA UF	MOVES.	· ·	S 0 N 20012201220	******(81.001)	

		FIRSI	FIRST SESSION INSTRUCTOR/FACILITY DATA SUMMARY	R/FACILITY DATA	SUMMARY		٦
CONV	CONV. INSTRUCTOR NAME ROOM NUM	ROOM NUMBER CO	NV. INSTRUCTOR NAM	E ROOM NUMBER	OM NUMBER CONV. INSTRUCTOR NAME ROOM NUMBER CONV. INSTRUCTOR NAME RUOM NUMBER	1E ROOM NUMBE	x
81.001 BEAGLES	BEAGLES	1 /001.00 81.	/001.00 81.002 BEAGLES	1 /001.00	/001.00 81.002 BEAGLES 1 /001.00 81.003 BEAGLES 1 /001.00	00.100/ 1	<u> </u>

Figure 12. Sample of 2 Year Graphic Format Report

TAEG Report No. 97

Touching RETURN will cause the program to proceed with the program and display the following:

TMS: REPORT 2× G	ENERATION	07/31/80	R 3	S 1
Option	Output Sequence			
1 2 3 4	Output by CDP Output by Priority Output by CIN Output by Short Title			
Enter Option:	#			

From this point the program operates as described in the SYSTEM OPTIONS section of this report under PRINT OPTIONS.

Upon completion of printing the report the program will display:

TMS: REPORT 2x GENERATION 07/31/80 R 3 S 1

[]]]]]]]] Attention [[[[[[[[[[[[[[[[This program has completed execution and has closed all open data files. If you have removed the PROGRAM disk, you may Re-mount it at this time.

* ;; END OF HELP ;; Touch RETURN or RECALL to return to menu *

Upon touching RETURN the program will return to the Schedule Report Selection Menu. Figure 13 shows an example of the Detail Format Report.

TAEG Report No. 97

CDP	CDP CONVENTNG	SHIFT	TITLE	MODULE ,	MODULE / SESSION	START / END	BUILDING	ROUM	INSTRUCTOR
0143	81.001	_	MINE CM OF	7 /		18 AUG 80 - 12 SEP 80 15 SEP 80 - 1 OCT 80		001.00	BEAGLES BEAGLES
0143	81.002	-	MINE CM OF	2 /		11 DEC 80 - 21 JAN 81		861.88	BEAGLES BEAGLES
0143	81.003		MINE CM OF	1 /	, ,	21 APR 81 - 18 MAY 81 19 MAY 81 - 4 JUN 81		001.00	BEAGLES BEAGLES
0148	81.001		MW PLAN FUND	1 / 2	 ,	18 AUG 80 - 15 SEP 80 16 SEP 80		001.02	HALL TRUTTA
0148	81.002	~	MW PLAN FUND	1 / 2 /		9 SEP 80 - 7 OCT 80 8 OCT 80 - 14 OCT 80		001.03	HELLER TROTTA
0148	81.003	_	MW PLAN FUND	1 /		1 OCT 80 - 29 OCT 80 30 OCT 80 - 5 NOV 80		001.02	HALLTA
0148	81.004	~	MW PLAN FUND	1 /	~	23 OCT 80 - 20 NOV 80 21 NOV 80 - 27 NOV 80		001.00	HELLER TROFTA
0148	81,005	~	MW PLAN FUND	1 /	مساهما	14 NOV 80 - 12 DEC 80	,_ <u>_</u>	001.02	HALL TROFTA
0148	81.006		MW PLAN FUND	1 /		22 JAN 81 - 19 JAN 81 22 JAN 81 - 9 FEB 81		001.03	HELLER HELLER
015K	81.001	_	6L16 02 GEN OM		1	18 AUG 80 - 15 SEP 80	TBA TBA	.TBA.	STAFF
015K	81.002	~	6L16 02 GEN OM		2	12 SEP 80 - 10 OCT 80	TBA.	.18A. .18A.	STAFF STAFF
015K	81.003	_	6L16 02 GEN OM		-2	9 0CT 80 - 6 NOV 80 9 0CT 80 - 6 NOV 80	TBA.	TBA.	STAFF STAFF
015K	81.004	_	6L16 02 GEN OM		2	5 NOV 80 - 3 DEC 80 5 NOV 80 - 3 DEC 80	TBA.	.TBA.	STAFF STAFF

Figure 13. Sample of Detail Format Report

CALENDAR FILE SUBSYSEM (MASTER TMS MENU OPTION "5")

Figure 14 shows the various options available to the user of the TMS Calendar File Subsystem.

Selecting option "5", Calendar File Subsystem, from the MASTER TMS MENU will cause the system to display:

which will be immediately followed by:

TMS: * CALENDAR	FILE SUBSYSTEM MENU *	06/27/80	R 3	S 1
Option	Description of :	Subsystem		
1 2	Generate FY Calendar Print FY Calendar			
.	Return to MASTER TMS I	ME NU		
Enter Option:	#			

OPTION "1" - GENERATE FISCAL YEAR CALENDAR. Selecting option 1 causes the screen to display:

TMS: * CALENDAR FILE SUBSYSTEM MENU * 06/27/80 R 3 S 1
Enter Starting Date of Calendar (mm/dd/yyyy): ##/####

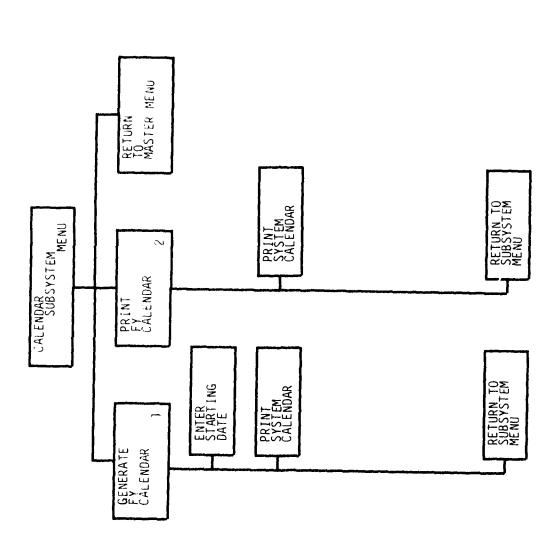


Figure 14. Calendar File Subsystem (Master IMS Menu Option "5")

Entering the starting date will cause the program to begin construction of the system calendar. The construction of the calendar is done in two parts. First, a table of holidays is built. While the table is being generated the program will display the following status information:

TMS: CALENDAR GENERATION 08/20/80 R 3 S 1

Enter Starting Date of Calendar (mm/dd/yyyy): 10/01/1980

New Years Day 1980 Washingtons Birth 1980 Memorial Day 1980 4th of July 1980

Computing Holiday: 4th of July

Memorial Day 1980 4th of July 1980 Labor Day 1980 Columbus Day 1980 Veterans Day 1980 Turkey Day 1980

The second step is the computation of the starting day of each of the 100 weeks of the calendar. While the table is being built the program will display the following status information:

TMS: CALENDAR GENERATION 08/20/80 R 3 S 1

Enter Starting Date of Calendar (mm/dd/yyyy): 10/01/1980

Week Starting this date, completed.

OOOONNNDDDDJJJJFFFFMMMMAAAAMMMMJJJJ CCCCOOOOEEEEAAAAEEEEAAAAAPPPPAAAAUUUU TTTTVVVVCCCCNNNNBBBBRRRRRRRRRYYYYNNNN

01220112001201120012001230122011200126407307418595296297329630630741861852

When all starting dates have been displayed, the screen will display:

TMS: CALENDAR GENERATION 08/20/30 R 3 S 1

Enter Starting Date of Calendar (mm/dd/yyyy): 10/01/1980 Do you wish to print the System Calendar (Yes/No): #

Entering a "Y" will cause the program to print the system calendar on the line printer, an example of the calendar is shown in figure 15. When completed the Calendar File Subystem Menu is displayed.

Entering a "N" will cause the program to display the Calendar File Subsystem Menu.

OPTION "2" ~ PRINT FISCAL YEAR CALENDAR. Selecting option 2 from the Calendar File Subsystem Menu will cause the program to display:

TMS: PRINT SYSTEM CALENDAR 08/20/80 R 3 S 1

Do you wish to print the System Calendar (Yes/No): #

Entering a "Y" will cause the program to print the system calendar on the line printer. An example of the calendar is shown in figure 15. When completed the Calendar File Subystem Menu is displayed.

Entering a "N" will cause the program to display the Calendar File Subsystem Menu.

	Week
OOODSZSZEGOOOJOJOHTTEENENENENENENENENENENOOOOOOOOOOOOOOO	мth
00000000000000000000000000000000000000	Year
$\frac{190}{600000000000000000000000000000000000$	Mon
「ころ	Tue
-0000000000000	Wed
-000 -000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000	Thr
	Fri
<u></u>	·

1 かららちららららららららららららららららららららりというとことのことのとのとのとのとのとのとなり 1 人と3 4 ちゅう 2 りょうしょうちょうちょうりょう 2 りょう 1 とりゅう 1 とり 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう 1 とりゅう	Week
	Mth
adadadadadadadadadadadadadadadadadadad	Year
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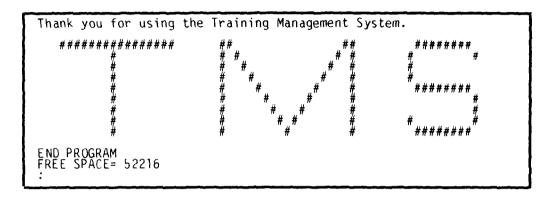
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Selecting the final option ".", End of Session, from the MASTER MENU will cause the program to display:



The terminal is now available for use by another user.

Appendix

Sample Print Output of the Course, Instructor, and Facility Data Files

TMS: COURSE FILE DATA RECORD

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SAMPLE OF INSTRUCTOR FILE PRINT FORMAT

TMS: INSTRUCTOR FILE DATA RE	RUCTOR F	ILE DAT	A RECORD	C	02/02/	02/05/81 R 3 S 1 [2]	5 1	[2]		Last Me	pamatna	Date Last Reviewed] 02/05/81	18/	Date L	Date Last Chungedj 02/05/81	nged j	18/50/3
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Shift 3	JUN 15 35 MTMTF	JUN 15 JUN 22 J	JUN 29 JUL 06 J 37 MIWTF MTWTF M	JUL 06	JUL 13 39 MTWTF	JUL 13 JUL 20 JUL 27 AUG 03 AUG 10 AUG 17 AUG 24 AUG 31 SEP 07 SEP 14 SEP 21 SEP 28 OCT 05 AUG 39 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AUG 10 AU	JUL 27 41 MTWTF	AUG 03	AUG 30	AUG 17 44 MTWTF	AUG 24 45 MTWTF	AUG 31 46 MTWTF	SEP 07	SEP 14	SEP 21	SEP 28 50 MIWTF	OCT 05 S1 MTMTF
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Shift 2 3	FEB 22 69 MTMTF	FEB 22 MAR 01 MAR 08 MAR 15 MAR 22 MAR 29 APR 05 APR 12 APR 19 APR 26 MAY 03 MAY 10 MAY 17 MAY 24 MAY 31 JUN 07 JUN 14 86 87 87 88 88 88 88 88 88 88 88 88 88 88	MAR 08 71 MTWTF	MAR 15 72 MTWTF	MAR 22 73 MTWTF	MAR 29 74 MTWTF	APR 05 75 MTWTF	APR 12 76 MTWTF	APR, 19	APR 26 78 MTWTF	MAY 03	MAY 10 80 MTWTF	MAY 17 8] MTWTF	MAY 24 MTWTF	MAY 31 83 MTWTF	JUN 07 84 MTWTF	JUN 14 85 MTWTF

SAMPLE OF INSTRUCTOR FILE PRINT FORMAT (continued)

SAMPLE OF FACILITY FILE PRINT FURMAT

Shift 2	Shift	Shift 2 3	Shift 2 3	Sh: 32-19 ft	Type:Blding:Room Special Room:Number:Number:Qualification	TMS: FACILITY FILE DATA RECORD
FEB 22 MAR 01 MAR 08 MAR 15 MAR 22 MAR 24 APR 05 APR 12 APR 19 APR 26 MAY 03 MAY 10 MAY 17 MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE MINTE 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MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWTF MTWT	FEB 16 FEB 23 MAR 02 MAR 09 MAR 16 MAR 23 MAR 30 APR 06 APR 13 APR 20 APR 27 MAY 04 MAY 11 MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER MINTER 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